

## **ELECTRICAL ENGINEER II**

### **NATURE AND PURPOSE OF WORK**

Classification includes positions whose purpose is to ensure timely and quality construction, renovation and maintenance, according to lawful codes and regulations, of municipal facilities.

Employees of this classification apply knowledge of electrical engineering to problems and/or assignments requiring familiarity with the methods and materials of the electric and/or communications programs.

Incumbents work under the direction of a registered Professional Engineer, and may supervise Engineering Aides or other technical positions. Incumbents may work alternately in different electrical engineering sections of the Department of Utilities.

**ILLUSTRATIVE EXAMPLES OF WORK** (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Prepares designs, specifications and bid packages of construction or renovation projects with independence, subject to review by a registered superior. Receives more detailed instructions on unusually difficult or complex problems. Evaluates bids, administers contracts, and prepares change orders. Ascertains contractor and in-house compliance with applicable standards, codes or regulations.

Conducts or oversees inspection of construction or reconstruction projects while underway. May authorize changes or departures from plans within established limits.

Projects, forecasts and plans traffic control device applications. Analyzes the applications for efficiency, impact and results.

Prepares projections and forecasts for planning generation costs, fuel purchases, power sales, purchases and transmission arrangements.

Participates in and provides technical assistance related to planning, designing, and administering the construction of a communication system providing telephone, television, and data services to homes and businesses.

Programs, maintains and troubleshoots the Energy Control System hardware and software.  
Performs related work as required.

### **NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS**

Knowledge of theory and practices of electrical engineering related to the area of assignment as obtained from an accredited college or university.

Knowledge of computer applications as required by area of assignment.

Knowledge and understanding of applicable codes, regulations or legal standards for construction and renovation of municipal utility or public works facilities.

Knowledge of electric or communications system layout, function, characteristics and limitations.

Ability to read, understand and apply contracts, specifications, change orders, purchasing and funding procedures.

Ability to form and maintain effective working relationships with elected officials, public and employees.

### **DESIRABLE QUALIFICATIONS**

Possession of the Engineer Intern certificate by examination, in the State of Louisiana, if non-resident with an equivalent certification, to obtain Louisiana certificate.

### **NECESSARY QUALIFICATIONS**

Bachelor of Science in Electrical Engineering from an accredited college or university and significant prior working experience as an Engineer I, or equivalent in another jurisdiction.